

As-Built Checklist

As-Built Checklist

Project Name: _____

WBS#: _____ D-Sheet #: _____

Project Engineer (PE): _____ Date: _____

Resident Engineer (RE): _____ Date: _____

REDLINE DRAWINGS		COMMENTS
RE	ITEMS	COMMENTS
<input type="checkbox"/>	Provide Project Management Team entire set of Redlines.	

TITLE BLOCK (FOR ALL SHEETS)		
PE	ITEMS	COMMENTS
<input type="checkbox"/>	Verify sheet count and sheet totals are correct and are consistent with Sheet Index.	
<input type="checkbox"/>	Under "DESCRIPTION" add "AS-BUILT" (this should be under "ORIGINAL"). Add a delta Δ next to "AS-BUILT" on sheets with redline changes.	
<input type="checkbox"/>	Add Project Engineer and Drafter initials under "BY", next to "AS-BUILT".	
<input type="checkbox"/>	Add Contractor Name, Inspector Name, Date Started, and Date Finished. Date Started is the Notice to Proceed date. Date Finished is the Notice of Completion date.	
<input type="checkbox"/>	Add "AS-BUILT" in the bottom page border under the title block.	

PROJECT PLANS		
PE	ITEMS	COMMENTS
<input type="checkbox"/>	On the Cover Sheet, in the Sheet Index under "MATERIAL" add the type of material that was used for the construction of water and sewer pipelines.	
<input type="checkbox"/>	On the Cover Sheet, add the following to the cover sheet using City Notes Cell Library: WHERE THIS AS-BUILT DRAWING INDICATES THE PRESENCE OF UTILITIES NOT OWNED OR OPERATED BY THE CITY OF SAN DIEGO, SUCH INDICATIONS SHALL MERELY REFLECT A NOTED ENCOUNTER WITH THOSE UTILITIES DURING THE COURSE OF PROJECT CONSTRUCTION. THE CITY OF SAN DIEGO MAKES NO WARRANTIES OR REPRESENTATIONS WITH RESPECT TO THE ACCURACY OF THIS INFORMATION AND NO SUBSEQUENT USERS MAY RELY THEREON FOR ANY PURPOSE WHATSOEVER.	
<input type="checkbox"/>	On the Cover Sheet, in the "AS-BUILT INFORMATION" area next to the title block, add the materials that were used (water/sewer pipe types, rehab liner, manholes, valves, fire hydrants) and their respective manufacturers.	
<input type="checkbox"/>	On all sheets, add all changes from the redlines into the As-Built drawing file. Cloud all changes made and put a numbered delta Δ next to the clouds.	
<input type="checkbox"/>	On all sheets, add any clarifications to the As-Built where appropriate (such as whether Additive Alternatives were constructed). <u>For work not built during construction:</u> If entire sheet was not built: X-out the entire page using a thick line weight and add "NOT IN CONTRACT" above the title block. Do not delete the page. If just a part of the sheet was not built: Remove work not completed and put a cloud and delta in its place. <u>For Additive Alternates:</u> If Additive Alternate was built: Add "ADDITIVE ALTERNATE CONSTRUCTED" above the title block. If Additive Alternate was not built: Add "ADDITIVE ALTERNATE NOT CONSTRUCTED" above the title block.	
<input type="checkbox"/>	On all sheets, on plan and profiles, change proposed "PIPE" to the material that the pipe was constructed or rehabbed with. For example, the plan and profile of a design sheet before As-Built might say "12" PIPE". When drafting this As-Built, this would get revised to "12" PVC", assuming PVC was the material the pipe was constructed with.	
<input type="checkbox"/>	On all sheets, add water service and sewer lateral material if different from proposed main pipe material.	
<input type="checkbox"/>	On all sheets, add water service and sewer lateral stationing.	

Sample As-Built Title Blocks

- ① COVER SHEET TITLE BLOCK – PROJECT TITLE FOR CIP PROJECTS SHALL BE THE SAME AS THE TITLE OF THE PROJECT IN THE C.I.P. BUDGET BOOK
- ② DISCIPLINE DESIGNATORS – OPTIONAL, AS SHOWN ON THE COVER SHEET
- ③ SHEET XX OF YY SHEET – XX REPRESENTS THE INDIVIDUAL SHEET AND YY REPRESENTS THE TOTAL NUMBER OF SHEETS
- ④ WORK BREAKDOWN STRUCTURE (WBS) – OBTAIN AND PLACE THE (WBS)(S) IN THE APPROPRIATE BLOCK AS SHOWN
- ⑤ PROJECT MANAGER – NAME OF THE PROJECT MANAGER
PRIVATE PROJECT PLANS: N/A
- ⑥ PROJECT ENGINEER – NAME OF THE PROJECT ENGINEER
PRIVATE PROJECT PLANS: N/A
- ⑦ CCS27 COORDINATE – (NAD 27) THE COVER SHEET SHALL CALL OUT "SEE EACH SHEET" ON THIS BLOCK
PRIVATE PROJECT PLANS: THESE NUMBERS ARE DETERMINED DURING PLAN CHECK BASED ON PTS MAP LAYERS
- ⑧ CCS83 COORDINATE – (NAD 83) THE SHEET COVER SHEET SHALL CALL OUT "SEE EACH SHEET" ON THIS BLOCK
PRIVATE PROJECT PLANS: THESE NUMBERS ARE DETERMINED DURING PLAN CHECK BASED ON PTS MAP LAYERS
- ⑨ DRAWING NUMBER – OBTAIN FROM MAPS AND RECORDS IN DEVELOPMENT SERVICES
- ⑩ DEPUTY CITY ENGINEER – DEPUTIZED CITY ENGINEER WHO IS IN CHARGE OF THE PROJECT (DIGITAL SIGNATURE) SIGNS ON BEHALF OF THE CITY
- ⑪ REGISTRATION: LEAVE BLANK IF IN-HOUSE DESIGN
- ⑫ REGISTRATION: DEPUTY CITY ENGINEER'S RCE NUMBER
- ⑬ DESCRIPTION BLOCK – "ORIGINAL" BLOCK FOR DESIGN PROJECT, ADDENDUM "A", "B", ETC AND CONSTRUCTION CHANGE "1", "2", ETC., FOR CHANGES MADE DURING CONSTRUCTION. WHEN DOING AS-BUILTS, USE A TRIANGLE WITH A NUMBER INSIDE (SEE AS-BUILT PROCEDURES SECTION OF THIS MANUAL)
- ⑭ CHANGES MADE TO DRAWINGS DURING DESIGN DO NOT LEAD TO ANY REVISION NOTATIONS ON THE BORDER. THE DRAWING STATUS BLOCK IS FOR FORMAL CHANGES BY ADDENDUM DURING THE BID PHASE, CONSTRUCTION CHANGES DURING CONSTRUCTION, AND FOR RECORDING AS-BUILTS INFORMATION PROJECT ENGINEER AND DRAFTER'S INITIALS WHO REVIEWED AND PREPARED THE AS-BUILT
- ⑮ DRAWN BY – WHEN ENTERING INITIALS, PLACE CITY DESIGN ENGINEER FIRST, THEN DRAFTER'S INITIALS OR THE INITIALS OF THE CONSULTANT'S COMPANY
- ⑯ APPROVED – THIS SECTION IS SIGNED WHEN ADDENDA AND CONSTRUCTION CHANGES ARE APPROVED BY THE DEPUTY CITY ENGINEER, AND THE AS-BUILT WILL BE SIGNED BY THE RESIDENT ENGINEER.
- ⑰ DATE – DATED BY THE DEPUTY CITY ENGINEER OR STAFF UNDER THEIR DIRECTION WHEN CHANGES ARE APPROVED
- ⑱ FILMED – WHEN THE PLANS ARE SUBMITTED TO MAPS AND RECORDS, THEY ARE FILMED AND DATED
- ⑲ FIELD INSPECTOR – PRINT NAME OF THE RESIDENT ENGINEER AFTER APPROVING AS-BUILTS. RESIDENT ENGINEER TO SIGN THE AUTHORIZATION FORM.
- ⑳ AS-BUILT INFORMATION – NAME OF CONTRACTOR, INSPECTOR AND THE DATES OF WHEN THE PROJECT STARTED AND ENDED
- ㉑ ENGINEERS STAMP – DIGITAL SEAL/STAMP (SIGNATURE WITH ELECTRONIC SIGNATURE AUTHORIZATION FORM). CONSULTANT IN CHARGE OF WORK MUST BE WET/ORIGINAL ONLY ON MYLARS
- ㉒ PRIVATE PROJECT PLANS: SEAL/STAMP MUST BE WET/ORIGINAL ONLY ON MYLARS
- ㉓ ADD THE MANUFACTURER(S) OF ALL MATERIALS, INCLUDING REHAB.
- ㉔ PRIVATE PROJECT PLANS: N/A
- ㉕ SPECIFICATIONS NO. – OBTAIN FROM CONTRACT PROCESSING
PRIVATE PROJECT PLANS: N/A
- ㉖ AS-BUILT INFORMATION FOR MATERIALS – REFER TO AS-BUILT PROCEDURES SECTION IN THIS MANUAL
PRIVATE PROJECT PLANS: N/A
- ㉗ PROGRAM IDENTIFICATION –
- ㉘ SCALE WARNINGS –
- ㉙ CHANGE – LINE WOULD HAVE THE LETTER (A, B, C, ETC.) SURROUNDED BY A TRIANGLE, WITH EACH LETTER A DIFFERENT SET OF CHANGES THROUGHOUT THE COURSE OF CONSTRUCTION. FOR PROCEDURES, REFER TO APPENDIX A, STANDARDS AND PROCEDURES FOR IMPROVEMENT PLANS.
- ㉚ DATE OF THE ADDENDUM AND/OR CONSTRUCTION CHANGE APPROVAL
- ㉛ AFFECTED OR ADDED SHEET NUMBERS – A CHANGE IS NOTED BY LISTING THE SHEET NUMBER(S)
- ㉜ APPROVAL NO. – NOT APPLICABLE FOR CIP PROJECTS
- ㉝ PRIVATE PROJECT PLANS: ASSIGNED APPROVAL NO. UPON PLAN REVIEW FOR PTS TRACKING PURPOSES

CONSTRUCTION CHANGE / ADDENDUM			WARNING 0 1/2 1	
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS		APPROVAL NO.

IF THIS BAR DOES NOT MEASURE 1', THEN DRAWING IS NOT TO SCALE.

The City of
SAN DIEGO Public Works

PLANS FOR THE CONSTRUCTION OF PROJECT TITLE COVER SHEET				
SPEC. NO.	CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET XX OF YY SHEETS			
	APPROVED: FOR CITY ENGINEER PRINT DCE NAME	DATE RCE#		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	XX/XX	XX		
AS-BUILT	XX/XX	XX		
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED		
WATER WBS 0-00000 SEWER WBS 0-00000 SUBMITTED BY: PROJECT MANAGER CHECKED BY: PROJECT ENGINEER SEE SHEETS CCS27 COORDINATE SEE SHEETS CCS83 COORDINATE XXXX-01-D				
G-1				
AS-BUILT INFORMATION		COMPANY NAME COMPANY ADDRESS COMPANY PHONE COMPANY FAX COMPANY EMAIL		
MATERIALS		MANUFACTURER		
PIPE CL 235 (WATER)		-		
PIPE SDR 35 (SEWER)		-		
GATE VALVES		-		
FIRE HYDRANTS		-		
SEWER MANHOLES		-		
REHABILITATE SEWER MANHOLES		-		
REHABILITATE SEWER MAIN		-		
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET OF SHEETS WATER WBS 0-00000 SEWER WBS 0-00000 SUBMITTED BY: PROJECT MANAGER CHECKED BY: PROJECT ENGINEER 0000-0000 CCS27 COORDINATE 0000-0000 CCS83 COORDINATE XXXX-00-D				
PLANS FOR THE CONSTRUCTION OF SEWER & WATER GROUP XYZ COVER SHEET				
SPEC. NO.				
AS-BUILT INFORMATION				
MATERIALS		MANUFACTURER		
PIPE CL 235 (WATER)		-		
PIPE SDR 35 (SEWER)		-		
GATE VALVES		-		
FIRE HYDRANTS		-		
SEWER MANHOLES		-		
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SEWER MANHOLES		-		
REHABILITATE SEWER MANHOLES		-		
REHABILITATE SEWER MAIN		-		

Sample As-Built Cover Sheet

MISSION CENTER CANYON SEWER B AND ACCESS PATH

UNDERGROUND UTILITIES

AT LEAST THREE (3) WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL REQUEST A MARKOUT OF UNDERGROUND UTILITIES BY CALLING THE BELOW LISTED REGIONAL NOTIFICATION CENTER FOR AN INQUIRY IDENTIFICATION NUMBER:
UNDERGROUND SERVICE ALERT (U.S.A.) 1-800-422-4133

CONTRACTOR'S RESPONSIBILITIES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND RECONNECT ALL SEWER LATERALS, LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. LATERALS RECORDS ARE AVAILABLE TO THE CONTRACTOR AT THE WATER DEPARTMENT. ON 197 CAMINO CHOLLAS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS. ALL IMPROVEMENTS DISTURBED BY CONTRACTOR SHALL BE REPLACED IN KIND TO ORIGINAL CONDITION OR BETTER.
- THE LOCATION OF EXISTING BUILDINGS AS SHOWN ON THE PLAN ARE APPROXIMATE.
- STORM DRAIN INLETS ARE TO REMAIN FUNCTIONAL / OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ALL ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY IN NO WAY GUARANTEES OR WARRANTS THAT IT HAS REVIEWED ALL AVAILABLE DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POTHOLE ALL EXISTING UTILITIES (EITHER SHOWN ON THE PLANS OR MARKED IN THE FIELD) IN ACCORDANCE WITH THE SPECIFICATIONS (SECTION 5-1)
- CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IMMEDIATELY IF A ONE FOOT VERTICAL SEPARATION (FROM OUTSIDE PIPE WALL TO OUTSIDE PIPE WALL) BETWEEN SEWER AND WATER MAINS CANNOT BE MAINTAINED.
- CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IMMEDIATELY IF A FOUR FOOT HORIZONTAL SEPARATION (FROM OUTSIDE PIPE WALL TO OUTSIDE PIPE WALL) BETWEEN SEWER AND WATER MAINS CANNOT BE MAINTAINED.
- CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IMMEDIATELY IF A 6-INCH VERTICAL SEPARATION (FROM OUTSIDE PIPE WALL TO OUTSIDE PIPE WALL) BETWEEN UTILITIES OTHER THAN SEWER AND WATER CANNOT BE MAINTAINED.
- EXISTING UTILITY CROSSING ARE NOT REPRESENTATIVE OF ACTUAL LENGTH OF CONFLICT AREA (SEE PLAN VIEW)

ABBREVIATIONS

ABAND	ABANDON	CSS	COASTAL SAGE SCRUB	OVHD	OVER HEAD
ABAND'D	ABANDONED	DB	DIRECT BURIED	PEP	PLANT ESTABLISHMENT PERIOD
AC	ASBESTOS CEMENT	EB	ENCASED BURIED	PLS	PURE LIVE SEED
PIPE		EL, ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
AHD	AHEAD	ELEC	ELECTRIC	PROP	PROPOSED
ASSY	ASSEMBLY	EVEC	END VERTICAL CURVE	RED	REDUCER
BFM	BONDED FIBER MATRIX	EX, EXIST	EXISTING	REVEG	REVEGETATION
BK	BACK	F	FLANGE	RT	RIGHT
BMP	BEST MANAGEMENT	GV	GATE VALVE	S	SURVEY LINE
PRACTICES		HDPE	HIGH-DENSITY	SO	STUB OUT
BTWN	BETWEEN	HP	POLYETHYLENE	SPCS	SPECIFICATIONS
BVC	BEGIN VERTICAL CURVE	IE	HIGH PRESSURE	SWR	SEWER
CATV	CABLE TV	INVERT ELEVATION	TEL	TEL	TELEPHONE
CI	CAST IRON PIPE	LT	LEFT	TPOB	TRUE POINT OF BEGINNING
C	CENTER LINE	MJ	MECHANICAL JOINT	UNK	UNKNOWN
COND	CONDUIT	MTD	MULTIPLE TELEPHONE DUCT	VC	VITRIFIED CLAY PIPE
CONT	CONTINUED			WM	WATER METER
CONTR	CONTRACTOR			WTR	WATER

EXISTING UTILITIES

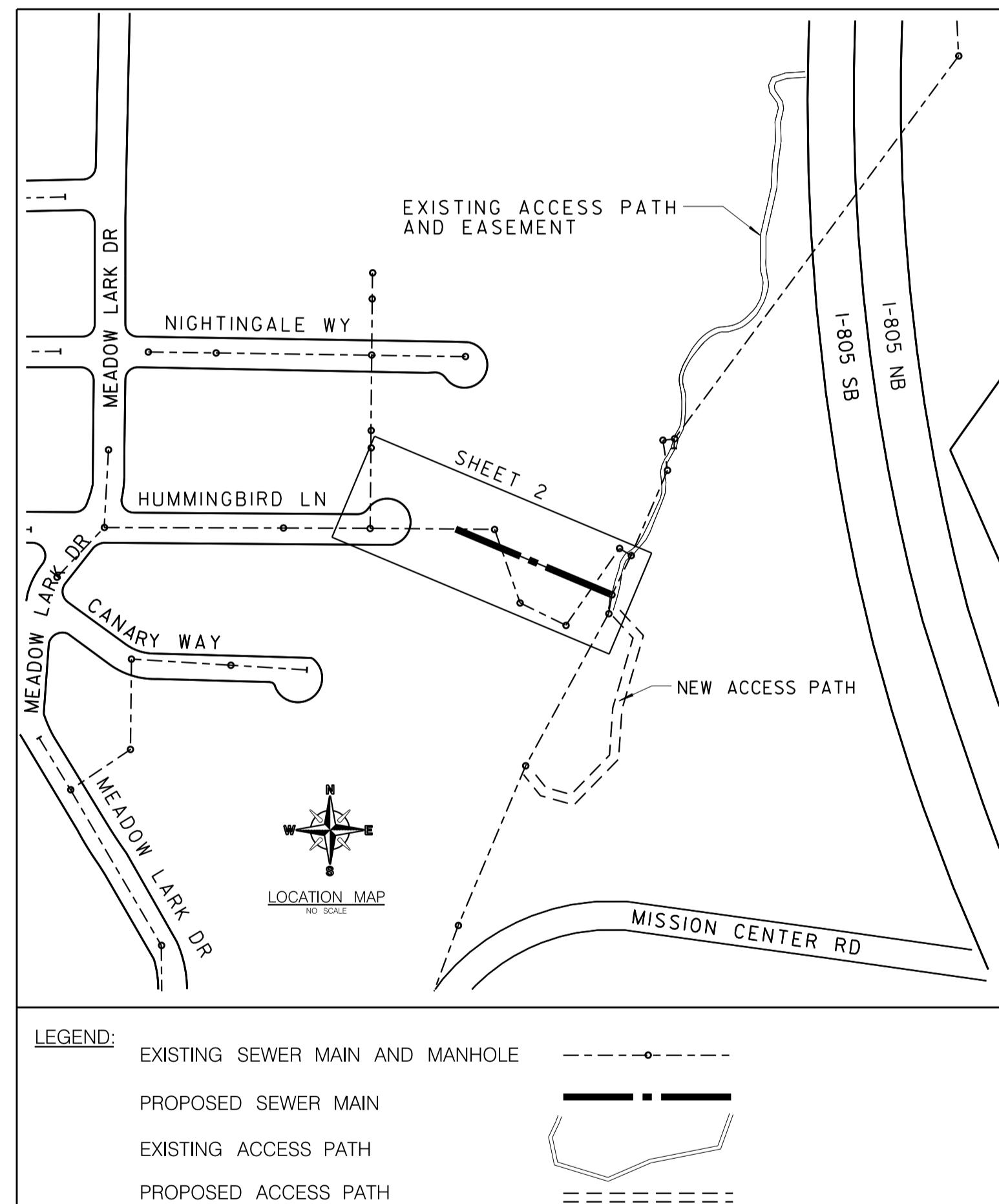
EX WATER MAIN & VALVES	-----+-----
EX WATER METER	-----+-----
EX FIRE HYDRANT	○ +
EX SEWER MAIN & MANHOLES	-----○-----
EX DRAINS	=====
EX PAVEMENT (PROFILE)	
EX GROUND (PROFILE)	
EX STREET LIGHT	SL
GAS MAIN	-----
ELEC. COND., TEL. COND., CATV	---E--- T--- C---
ELEC. POWER POLE	○

LIMITS OF WORK

SHEET NO.	DISCIPLINE CODE	STREET	LIMITS	PIPE		LENGTH (FT)
				SIZE (IN)	MATERIAL	
1	G-1	COVER SHEET	SEWER			
2	C-1	HUMMINGBIRD LN TO MISSION CENTER CANYON	FROM STA 1+00 to 4+38.40 (LONGITUDINAL AXIS)	8	PVC	338.40
3	C-2	SEWER MAIN ABANDONMENT				
4	C-3	MISSION CENTER CANYON ACCESS PATH	FROM STA 1+00 TO 6+52.71			
5	C-4	DETAILS				
6	L-1	Pipeline Revegetation Plan				
7	L-2	Access Path Revegetation Plan				
8	L-3	Pipeline Revegetation Plan				

DISCIPLINE CODE

G	GENERAL
D	DEMOLITION
C	CIVIL
M	MECHANICAL
E	ELECTRICAL
I	INSTRUMENTATION
L	LANDSCAPE



WORK TO BE DONE
CONSTRUCTION CONSISTS OF THE INSTALLATION OF NEW 8-INCH SEWER MAIN AND CANYON ACCESS PATH. ABANDON EXISTING 8" VC SEWER MAIN AND SEWER MANHOLES OUTSIDE OF PROPOSED ALIGNMENT. TRENCH SHORING, REVEGETATION, ENVIRONMENTAL MONITORING, AND ALL OTHER WORK AND APPURTENANCES IN ACCORDANCE WITH THE SPECIFICATIONS AND THESE DRAWINGS.

IMPROVEMENTS

SEWER MAIN

SDS-100, SDS-101, SDS-108, SDS-110 (TYPE C)



SEWER MANHOLE/PVC LINE

M-3, SM-03, SM-04, SDM-13, SM-07



REHAB. (PVC LINE) AND RECHANNEL EX. SEWER MANHOLE

SEE PLANS & SPECS



EX MANHOLES TO BE ABANDONED

SM-08



CUTTING AND PLUGGING ABANDONED SEWER/WATER MAIN

WP-03



SURVEY MONUMENT

M-10

CUTOFF WALL

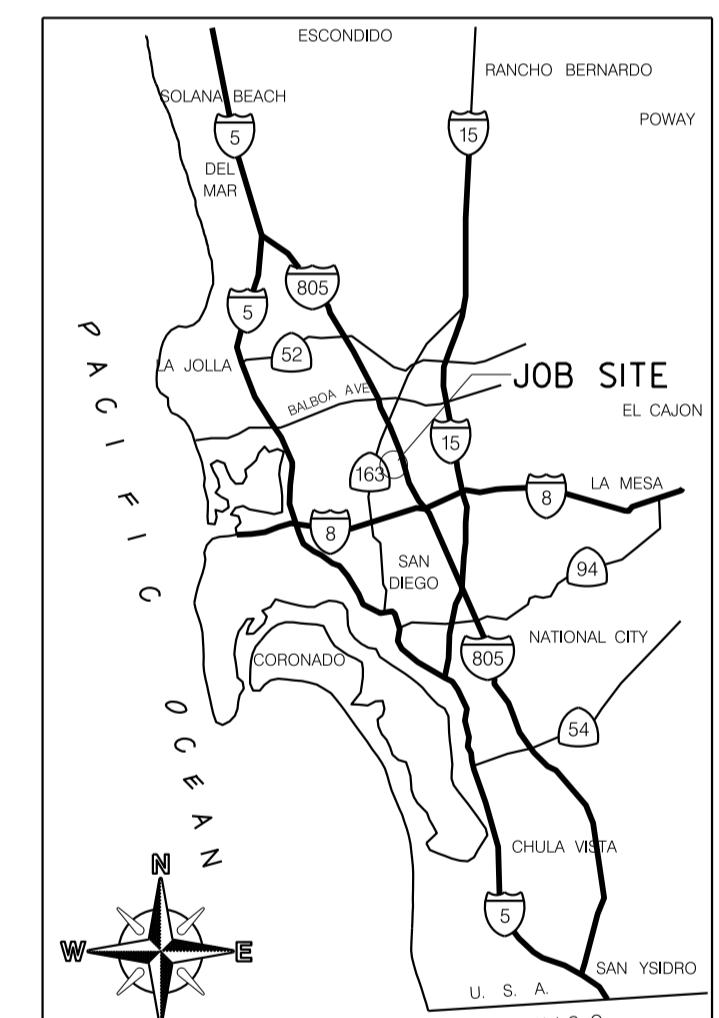
SDS-115



FOR ADDITIONAL SYMBOLS SEE DETAILS, REVEGETATION AND BMP POLLUTION CONTROL SITE PLANS.

MISSION CENTER CANYON SEWER B & ACCESS PATH

G-1



VICINITY MAP

NO SCALE

WHERE THIS AS-BUILT DRAWING INDICATES THE PRESENCE OF UTILITIES NOT OWNED OR OPERATED BY THE CITY OF SAN DIEGO, SUCH INDICATIONS MERELY REFLECT A NOTED ENCOUNTER WITH THOSE UTILITIES DURING THE COURSE OF PROJECT CONSTRUCTION. THE CITY OF SAN DIEGO MAKES NO WARRANTIES OR REPRESENTATIONS WITH RESPECT TO THE ACCURACY OF THIS INFORMATION AND NO SUBSEQUENT USERS MAY RELY THEREON FOR ANY PURPOSE WHATSOEVER.

FUNDING: CIP / SAP B-00432	SPEC. NO. 5032	WATER WBS 00000
AS-BUILT INFORMATION		SEWER WBS B-00432
MATERIALS		MANUFACTURER
PIPE SDR 35 (SEWER)		S&J SUPPLY
SEWER MANHOLES		OLD CASTLE
CONCRETE PAVERS		ARMOR FLEX CONTECH SUPPLY CONSTRUCTION PRODUCTS
CONSTRUCTION CHANGE / ADDENDUM		APPROVED: <i>W. Gammie</i> 6/7/2010
CHANCE	DATE	DESCRIPTION
AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	BY APPROVED DATE FILMED
WARNING		INITIALS OF PEDOMETER
IF THIS BAR DOES NOT MEASURE 1' THEN DRAWING IS NOT TO SCALE.		7-15-12
The City of SAN DIEGO Public Works		SEE EACH SHEET CCS2 COORDINATE
CONTRACTOR HTA ENGINEERING DATE STARTED 1-18-2011		SEE EACH SHEET CCS3 COORDINATE
INSPECTOR IGOR LEVIN DATE COMPLETED 2-9-2012		34705-01-D

AS-BUILT